	Application No.	Applicant(s)	
Notice of Allowability	10/790,092	KAWAI ET AL.	<u> </u>
	Examiner	Art Unit	
	Satya B. Sastri	1713	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject t	plication. If not included will be mailed in due course. THIS	ve
1. This communication is responsive to <u>June 19, 2006</u> .			
2. X The allowed claim(s) is/are 1,4,7,8,10-12,14 and 15.			
<ol> <li>Acknowledgment is made of a claim for foreign priority un</li> <li>a)    ☐ All b) ☐ Some* c) ☐ None of the:</li> </ol>	der 35 U.S.C. § 119(a)-(d) or (f).		
<ol> <li>Certified copies of the priority documents have</li> </ol>			
2. Certified copies of the priority documents have	• • • • • • • • • • • • • • • • • • • •		
3. Copies of the certified copies of the priority doc	cuments have been received in this	national stage application from the	
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give			
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	t be submitted.		
(a) I including changes required by the Notice of Draftspers	= -	·948) attached	
<ol> <li>hereto or 2) ☐ to Paper No./Mail Date</li> </ol>			
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the 0	Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the			
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT F</li> </ol>			
Attachment(s)			
1. Notice of References Cited (PTO-892)		Patent Application (PTO-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	<ol> <li>Interview Summary</li> <li>Paper No./Mail Da</li> </ol>	te	
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date</li> </ol>	8), 7. Examiner's Amend		
4. Examiner's Comment Regarding Requirement for Deposit	8.   Examiner's Statement	ent of Reasons for Allowance	
of Biological Material	9.		

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## EXAMINER'S COMMENT/REASONS FOR ALLOWANCE

1. All previous rejections have been overcome by the amendment filed on June 19, 2006 and the rejections are withdrawn. *Claims 1, 4, 7, 8, 10-12, 14 and 15* are now pending in the application.

## Reasons For Allowance

- 2. Claims 1, 4, 7, 8, 10-12, 14 and 15 are allowed.
- 3. The following is an Examiner's Statement of Reasons for Allowance:

The instant claims are allowable over prior art to Behan et al. (US 5,500,223), Moy (US 5,804,298), Redding, Jr. (US 6,149,953), and Tanaka et al. (US 6,106,946).

Instant claims are directed a microcapsules comprising a shell and a liquid substance which is encapsulated in the shell, with the microcapsule being characterized in that the shell contains organic polymer fine particles having a diameter no larger than 1 micron, a sheet comprising a binder and microcapsules comprising a shell and a liquid substance which is encapsulated in the shell, with the microcapsule being characterized in that the shell contains fine organic particles having a diameter no larger than 1 micron, and electrophoretic display comprising such sheets or microcapsules or sheets.

Behan et al. disclose an encapsulating method using silica having a particle size not greater than 100 nm. An emulsion is formed by mixing silica with hydrophobic materials such as flavors, fragrances, cosmetic ingredients etc. to be encapsulated and subsequently gelling the emulsion.

The prior art to Moy concerns microcapsules with reduced shell wall permeability accomplished by way of incorporating inorganic colloidal silica particles into an encapsulation dispersion.

Prior art to Redding Jr. concerns seeded microcapsules comprising a core surrounded by a shell having a seeding agent disposed therein for the purpose of imparting enhanced structural or functional characteristics. The seeding agents may be pH sensitive compounds such as ascorbic acid, citric acid, sodium bicarbonate etc. and the core material may be a liquid material such as mineral oil, vegetable oil, flavors, fragrances etc. The ascorbic acid particles dispersed in the organic shell should be 0.5-200 micrometers in size (column 7, lines 65-67 and column 8, lines 1-4).

Tanaka et al. disclose microcapsules containing a magnetic fluid having particles 5-200 nm, organic solvent and a foaming agent encapsulated in the shell (abstract).

The prior art of record does not teach or suggest, alone or in combination, a shell comprising solid organic or polymeric particles and encapsulating a fluid material as claimed instantly. Therefore, the instantly claimed invention is deemed allowable over closest prior art of record as per said art neither anticipating nor rendering, alone or in combination, the instantly claimed invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance.

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Future Correspondence

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Satya Sastri whose telephone number is 571-272-1112.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Wu can be reached on 571-272-1114. The fax phone numbers for the

organization where this application or proceeding is assigned is (571) 273 8300 for regular

communications. The unofficial direct fax phone number to the Examiner's desk is 571-273-

1112.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ralza zali SATYA SASTRI

July 10, 2006

DAVID W. WU SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 1700